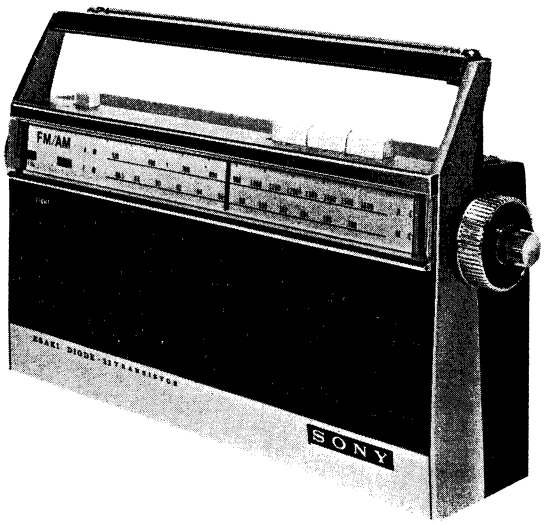
EFM-117



Specifications

Circuit :	11 Transistor Superheterodyne
Frequency Coverage :	FM 86.5—108 Mc (3.53—2.78 m)
	MW 530—1,605 Kc (566—187 m)
Intermediate Frequency :	FM 10.7 Mc MW 455 Kc
Antenna System :	FM Built-in Telescopic Antenna
	MW Built-in Ferrite Bar Antenna
Maximum Sensitivity :	FM −2 dB (at 50 mW output with 6 dB S/N)
	MW 26 dB (at 10 mW output)
Selectivity :	22 dB at 10 Kc off resonance, at 1,400 Kc
Output Power :	480 mW (undistorted)
Current Drain :	12 mA (MW), 15 mA (FM) at zero signal,
	160 mA at 480 mW output
Speaker :	4-3/4″ × 3-1/8″
	(12 × 8 cm) PM dynamic, 8 Ω
Battery :	Four size "C" Flashlight
	Batteries (6 Volts)
Dimensions :	12″ × 6-5/8″ × 2-3/8″
	(300 × 167 × 60 mm)
Weight :	3-1/2 lbs. (1.6 kg)

Electrical characteristics of FM band is measured with the LOCAL/DISTANT Selector Switch set to "DISTANT".

Adjustments

a) Frequency Coverage Adjustment

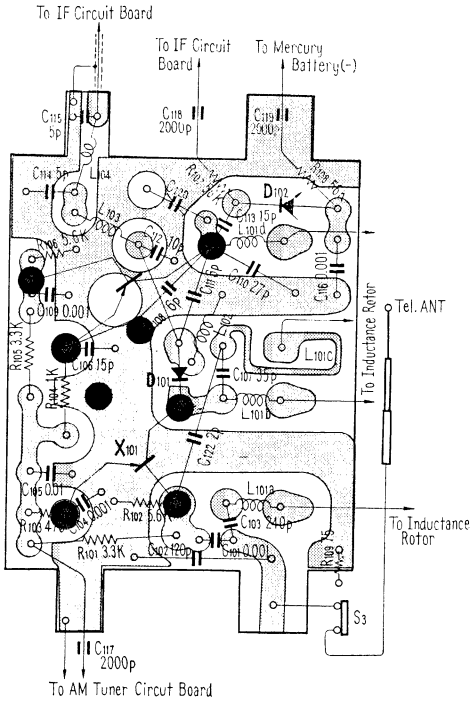
		Lower Limit	Adjust	Upper Limit	Adjust
FM	i)	85.5±1 Mc	Gap of FM OSC Aux. Coil (L_{101}d)	Lower Limit +24 Mc	Gap of FM OSC Aux. Coil (L_{101}d)
	ii)	85.5 Mc	Trimmer Capacitor (C_{120})		
MW		520 Kc	Core of MW OSC Coil (L_{201})	1,680 Kc	MW OSC Trimmer (C_{205})

b) Tracking Adjustment

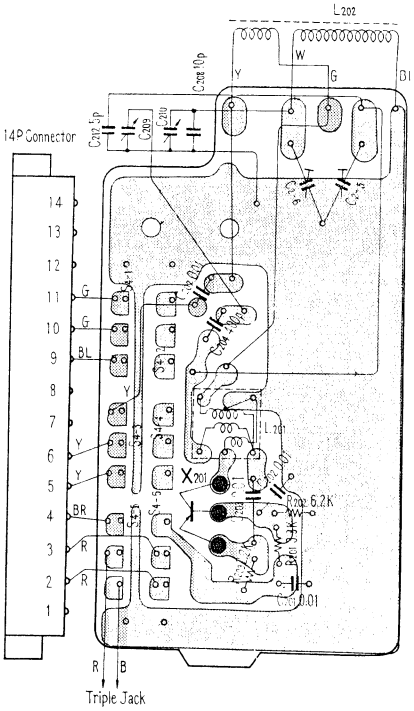
	Lower Checking Point	Adjust	Upper Checking Point	Adjust
FM			109.5 Mc	Gap of FM RF Aux. Coil (L_{101}b) and Gap of FM ANT Aux. Coil (L_{101}a)
MW	620 Kc	Position of MW ANT Coil (L_{202})	1,400 Kc	MW ANT Trimmer (C_{206})

Mounting Diagram
—Printed Side—

FM Tuner Section



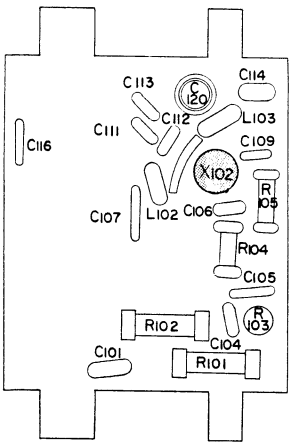
AM Tuner Section



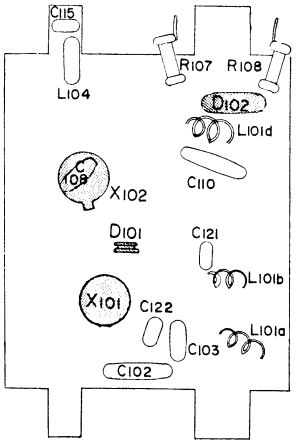
Mounting Diagram
—Parts Side—

FM Tuner Section

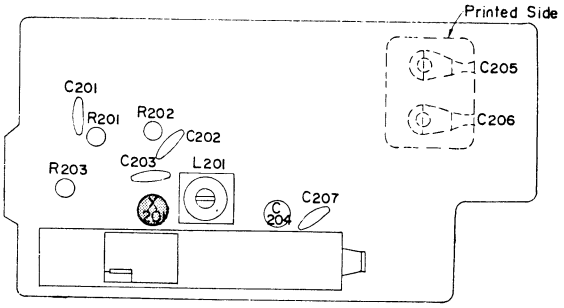
Parts Side



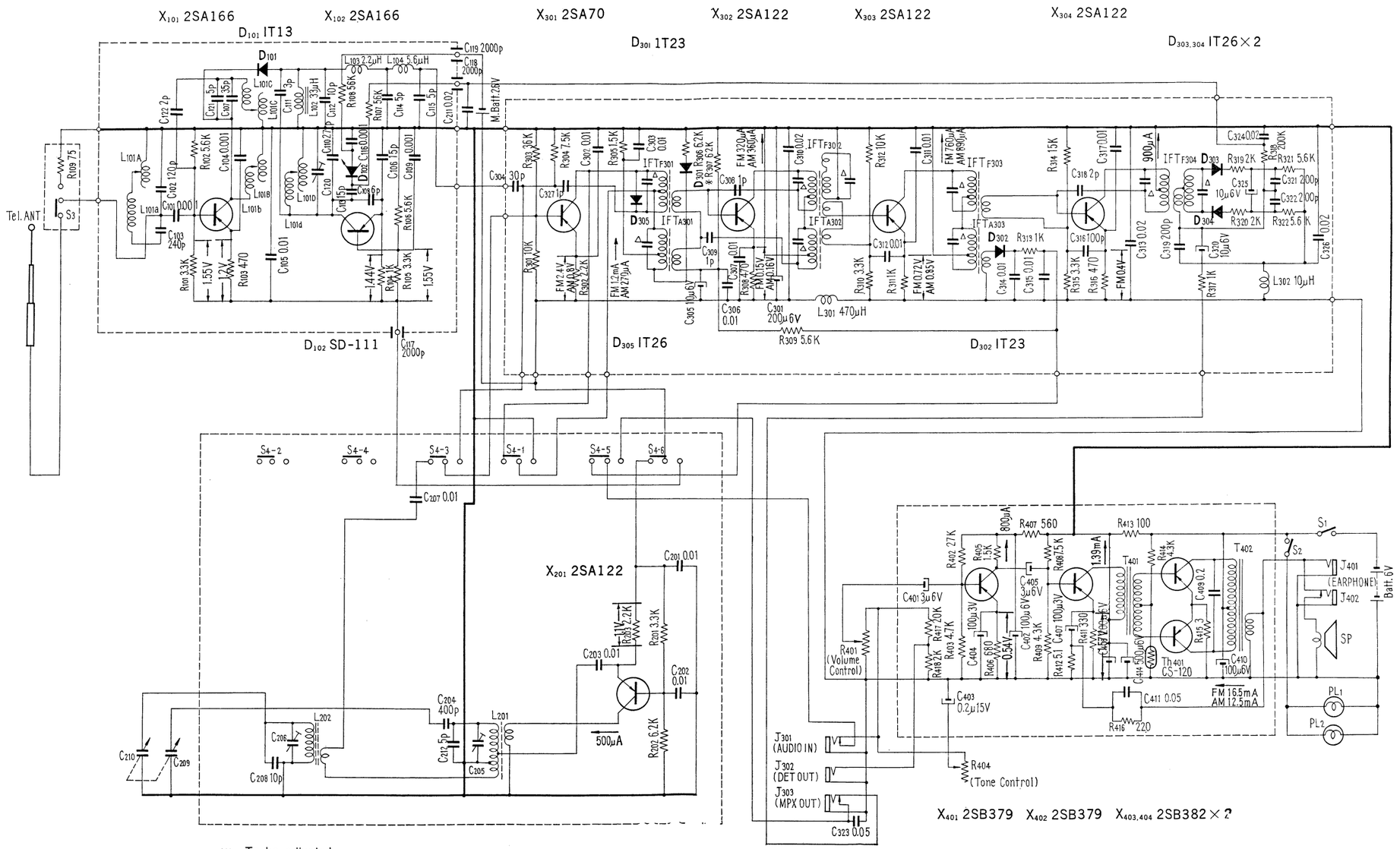
Printed Side



AM Tuner Section



Schematic Diagram



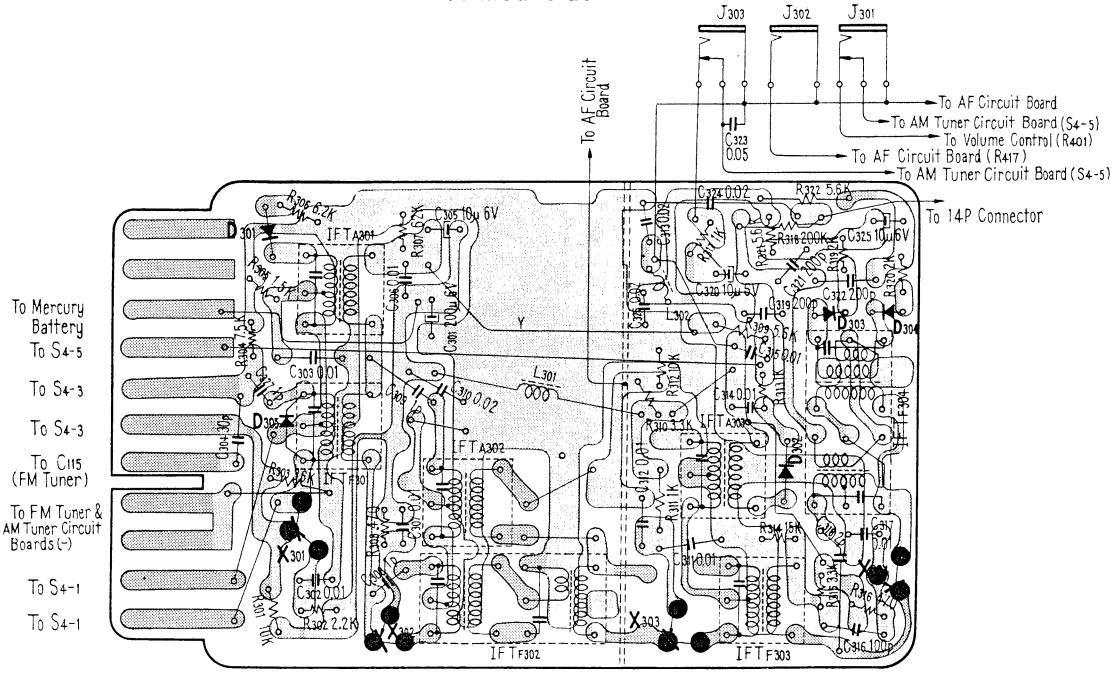
※ To be adjusted

Capacitors marked with △ are built in relative IF Transformers.

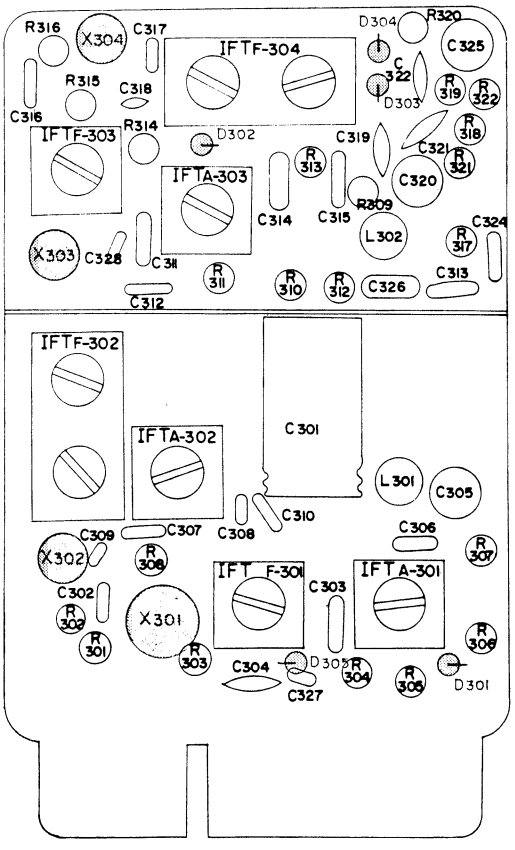
Mounting Diagram

IF Section

—Printed Side—



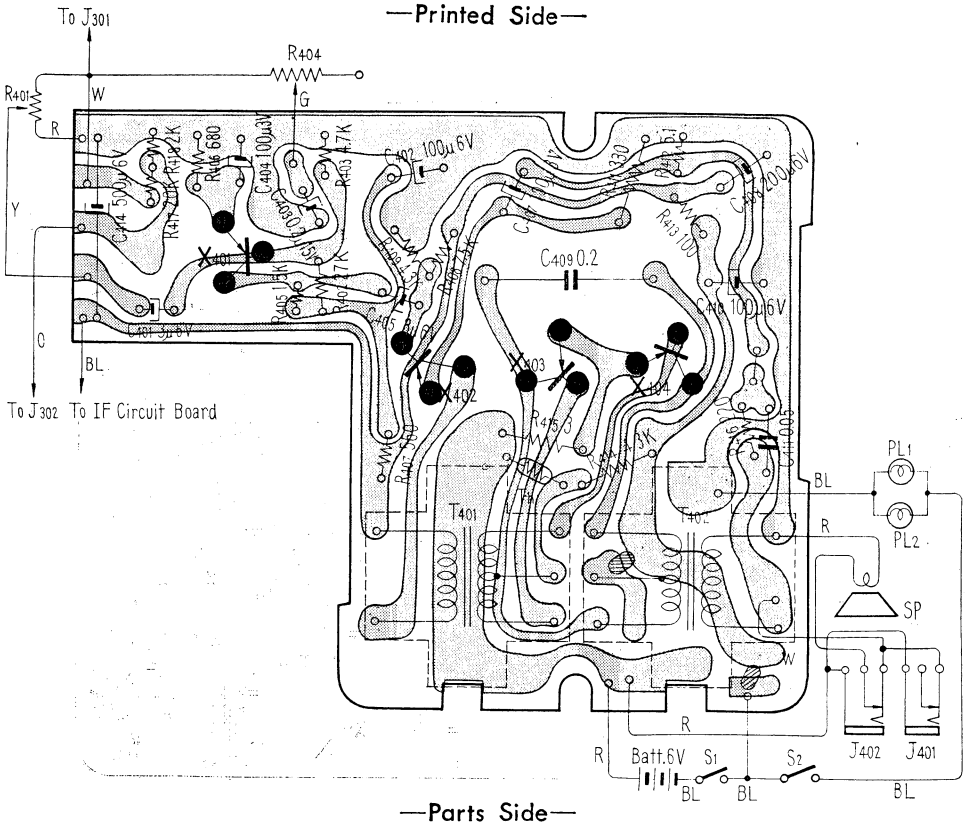
—Parts Side—



Mounting Diagram

AF Section

—Printed Side—



—Parts Side—